Zener Diodes

MM3Z2V4C - MM3Z75VC

Features

- Wide Zener Voltage Range Selection, 2.4 V to 75 V
- VZ Tolerance Selection of ±5% (C Series)
- Very Small and Thin SMD Package
- Matte Tin(Sn) Finish
- These Devices are Pb-Free and are RoHS Compliant

ABSOLUTE MAXIMUM RATINGS (T_A = 25°C unless otherwise noted)

Symbol	Parameter	Value	Units
P _D	Power Dissipation	200	mW
T _{STG}	Storage Temperature Range	-65 to +150	°C
T _J	Maximum Junction Temperature	150	°C
I _{ZM}	Maximum Regulator Current	P _D /V _Z	mA

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

THERMAL CHARACTERISTICS

Symbol	Parameter	Value	Units	
$R_{ heta JA}$	Thermal Resistance, Junction to Ambient	595	°C/W	

NOTE: Device mounted on PCB with minimum land pad.

ELECTRICAL CHARACTERISTICS

 $(T_A = 25^{\circ}C \text{ unless otherwise specified})$

Symbol	Parameter	Min	Тур	Max	Units
V _F	Forward Voltage / I _F = 10 mA	1	-	1.0	V

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.



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CONNECTION DIAGRAM





DIAGRAM

SOD-323FL CASE 477AB



MARKING

(Band Denotes Cathode)

X = Specific Device Code

1 = Date Code

ORDERING INFORMATION

Device	Package	Shipping†
Refer to Product	SOD-323FL	3,000 / Tape &
Table List	(Pb-Free)	Reel

†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

MM3Z2V4C - MM3Z75VC

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Device Type Marking Min. Typ. Max. Hax. - Max. - - Max. - - - - - - - -		Device	V _Z (V) @ I _{ZT}		Z _{ZT} (Ω) @ I _{ZT}	I _{ZT} (mA)	Z _{ZK} (Ω) @ I _{ZK}	I _{ZK} (mA)	I _R (μA) @ V _R	V _R (V)	
MM3Z2V7C Z1 2.57 2.7 2.84 94 5 564 1 18 1 MM3Z3V0C Z2 2.85 3 3.15 89 6 564 1 9 1 MM3Z3V3C Z3 3.14 3.3 3.47 89 5 564 1 4.5 1 MM3Z3V9C Z3 3.71 3.9 4.1 84 5 564 1 2.7 1 MM3Z4V3C Z6 4.09 4.3 4.52 84 5 564 1 2.7 1 MM3Z4V7C Z7 4.47 4.7 4.94 75 5 470 1 2.7 2 MM3Z5V1C Z8 4.85 5.1 5.36 56 5 451 1 1.8 2 MM3Z6V3C ZB 6.6 6.8 7.14 14 5 75 1 1.9 5 MM322V3C ZD	Device Type		Min.	Тур.	Max.	Max.	-	Max.	-	Max.	-
MM323V0C Z2 2.85 3 3.15 89 5 564 1 9 1 MM323V3C Z3 3.14 3.3 3.47 89 5 564 1 4.5 1 MM323V3C Z4 3.42 3.6 3.78 84 5 564 1 4.5 1 MM323V3C Z5 3.71 3.9 4.1 84 5 564 1 2.7 1 MM324V3C Z6 4.09 4.3 4.52 84 5 564 1 2.7 1 MM324V3C Z7 4.47 4.7 4.94 75 5 470 1 2.7 2 2 MM325V1C Z8 4.85 5.1 5.36 56 5 451 1 1.8 2 2 2 MM325V1C Z8 4.85 5.1 5.36 56 5 451 1 1.8 2 2 2 MM325V1C Z8 4.85 5.1 5.36 56 5 451 1 1.8 2 2 2 MM326V3C Z9 5.32 5.6 5.88 3.7 5 3.76 11 2.7 4 4 4 4 4 4 4 5 75 1 0.9 2 2 4 4 4 4 4 4 4 5 75 1 0.9 2 2 4 4 4 4 4 4 4 5 75 1 0.9 5 4 4 4 4 4 4 4 4 5 75 1 0.9 5 4 4 4 4 4 4 4 5 75 1 0.9 5 4 4 4 4 4 4 4 5 75 1 0.9 5 4 4 4 4 4 4 5 75 1 0.9 5 4 4 4 4 4 5 75 1 0.9 5 4 4 4 4 4 5 75 1 0.9 5 5 4 4 4 4 4 5 75 1 0.9 5 5 4 4 4 4 4 4 5 75 1 0.9 5 5 4 4 4 4 4 4 5 75 1 0.9 5 5 4 4 4 4 4 4 5 75 1 0.9 5 5 4 4 4 4 4 4 5 75 1 0.9 5 5 4 4 4 4 4 4 5 75 1 0.9 5 5 4 4 4 4 4 5 75 1 0.9 5 5 4 4 4 4 4 4 5 75 1 0.9 5 5 4 4 4 4 4 4 5 75 1 0.9 5 5 4 4 4 4 4 4 4 5 75 1 0.9 5 5 4 4 4 4 4 4 4 5 75 1 0.9 5 6 4 4 4 4 4 4 5 75 1 0.9 5 4 4 4 4 4 4 4 4 4	MM3Z2V4C	Z0	2.28	2.4	2.52	94	5	564	1	45	1
MM3Z3V9C	MM3Z2V7C	Z1	2.57	2.7	2.84	94	5	564	1	18	1
MM323V6C Z4	MM3Z3V0C	Z2	2.85	3	3.15	89	5	564	1	9	1
MM323V9C	MM3Z3V3C	Z3	3.14	3.3	3.47	89	5	564	1	4.5	1
MM3Z4V3C Z6 4.09 4.3 4.52 84 5 564 1 2.7 1 MM3Z4V7C Z7 4.47 4.7 4.94 75 5 470 1 2.7 2 MM3Z5V1C Z8 4.85 5.1 5.36 56 5 451 1 1.8 2 MM3Z6V2C Z9 5.32 5.6 5.88 37 5 376 1 0.9 2 MM3Z6V2C ZA 5.89 6.2 6.51 9 5 141 1 2.7 4 MM3Z6V8C ZB 6.66 6.8 7.14 14 5 75 1 0.9 5 MM3Z9V1C ZE 8.65 9.1 9.56 14 5 75 1 0.63 5 MM3Z1VC ZF 9.5 10 10.5 18 5 141 1 0.09 8 MM3Z1VC ZH	MM3Z3V6C	Z4	3.42	3.6	3.78	84	5	564	1	4.5	1
MM3Z4V7C Z7 4.47 4.7 4.94 75 5 470 1 2.7 2 MM3Z5V1C Z8 4.85 5.1 5.36 56 5 451 1 1.8 2 MM3Z6VCC Z9 5.32 5.6 5.88 37 5 376 1 0.9 2 MM3Z6V2C ZA 5.89 6.2 6.51 9 5 141 1 2.7 4 MM3Z6V8C ZB 6.46 6.8 7.14 14 5 75 1 0.9 5 MM3Z8V2C ZD 7.79 8.2 8.61 14 5 75 1 0.63 5 MM3Z10VC ZF 9.5 10 10.5 18 5 141 1 0.45 6 MM3Z1VC ZG 10.45 11 11.55 18 5 141 1 0.09 8 MM3Z1VC ZJ	MM3Z3V9C	Z5	3.71	3.9	4.1	84	5	564	1	2.7	1
MM325V1C Z8 4.85 5.1 5.36 56 5 451 1 1.8 2 MM3Z6V2C Z9 5.32 5.6 5.88 37 5 376 1 0.9 2 MM3Z6V2C ZA 5.89 6.2 6.51 9 5 141 1 2.7 4 MM3Z6V8C ZB 6.46 6.8 7.14 14 5 75 1 1.8 4 MM3Z8V2C ZD 7.79 8.2 8.61 14 5 75 1 0.63 5 MM3Z8V2C ZD 7.79 8.2 8.61 14 5 75 1 0.63 5 MM3Z9VC ZE 8.65 9.1 9.56 14 5 94 1 0.45 6 MM3Z1VC ZF 9.5 10 10.5 18 5 141 1 0.08 8 MM3Z1VC ZH	MM3Z4V3C	Z6	4.09	4.3	4.52	84	5	564	1	2.7	1
MM3Z6V6C Z9 5.32 5.6 5.88 37 5 376 1 0.9 2 MM3Z6V2C ZA 5.89 6.2 6.51 9 5 141 1 2.7 4 MM3Z6V8C ZB 6.46 6.8 7.14 14 5 75 1 0.9 5 MM3Z6V2C ZD 7.79 8.2 8.61 14 5 75 1 0.63 5 MM3Z10VC ZE 8.65 9.1 9.66 14 5 94 1 0.45 6 MM3Z10VC ZF 9.5 10 10.5 18 5 141 1 0.48 7 MM3Z12VC ZH 11.4 12 12.6 23 5 141 1 0.09 8 MM3Z13VC ZJ 12.35 13 13.65 28 5 160 1 0.09 8 MM3Z16VC ZK <td>MM3Z4V7C</td> <td>Z7</td> <td>4.47</td> <td>4.7</td> <td>4.94</td> <td>75</td> <td>5</td> <td>470</td> <td>1</td> <td>2.7</td> <td>2</td>	MM3Z4V7C	Z 7	4.47	4.7	4.94	75	5	470	1	2.7	2
MM326V2C ZA 5.89 6.2 6.51 9 5 141 1 2.7 4 MM326V8C ZB 6.46 6.8 7.14 14 5 75 1 1.8 4 MM326V2C ZC 7.11 7.5 7.86 14 5 75 1 0.9 5 MM328V2C ZD 7.79 8.2 8.61 14 5 75 1 0.63 5 MM3210VC ZE 8.65 9.1 9.56 14 5 94 1 0.45 6 MM321VC ZF 9.5 10 10.5 18 5 141 1 0.18 7 MM321VC ZG 10.45 11 11.55 18 5 141 1 0.09 8 MM321VC ZJ 11.4 12 12.6 23 5 141 1 0.09 8 MM321VC ZK	MM3Z5V1C	Z8	4.85	5.1	5.36	56	5	451	1	1.8	2
MM326V8C ZB 6.46 6.8 7.14 14 5 75 1 1.8 4 MM3ZVVC ZC 7.11 7.5 7.86 14 5 75 1 0.9 5 MM3ZBV2C ZD 7.79 8.2 8.61 14 5 75 1 0.63 5 MM3ZBV2C ZE 8.65 9.1 9.56 14 5 94 1 0.45 6 MM3Z1VVC ZF 9.5 10 10.5 18 5 141 1 0.18 7 MM3Z1VC ZH 11.4 12 12.6 23 5 141 1 0.09 8 MM3Z1SVC ZJ 12.35 13 13.65 28 5 160 1 0.09 8 MM3Z1SVC ZK 14.25 15 15.75 28 5 188 1 0.045 11.2 MM3Z1SVC ZK	MM3Z5V6C	Z 9	5.32	5.6	5.88	37	5	376	1	0.9	2
MM3Z7V5C ZC 7.11 7.5 7.86 14 5 75 1 0.9 5 MM3Z8V2C ZD 7.79 8.2 8.61 14 5 75 1 0.63 5 MM3Z9V1C ZE 8.65 9.1 9.56 14 5 94 1 0.45 6 MM3Z10VC ZF 9.5 10 10.5 18 5 141 1 0.18 7 MM3Z11VC ZG 10.45 11 11.55 18 5 141 1 0.09 8 MM3Z13VC ZJ 12.35 13 13.65 28 5 160 1 0.09 8 MM3Z15VC ZK 14.25 15 15.75 28 5 188 1 0.045 10.5 MM3Z16VC ZL 15.2 16 16.8 37 5 188 1 0.045 11.2 MM3Z26VC	MM3Z6V2C	ZA	5.89	6.2	6.51	9	5	141	1	2.7	4
MM3Z8V2C ZD 7.79 8.2 8.61 14 5 75 1 0.63 5 MM3Z9V1C ZE 8.65 9.1 9.56 14 5 94 1 0.45 6 MM3Z10VC ZF 9.5 10 10.5 18 5 141 1 0.18 7 MM3Z11VC ZG 10.45 11 11.55 18 5 141 1 0.09 8 MM3Z12VC ZH 11.4 12 12.6 23 5 141 1 0.09 8 MM3Z13VC ZJ 12.35 13 13.65 28 5 160 1 0.09 8 MM3Z15VC ZK 14.25 15 15.75 28 5 188 1 0.045 11.2 MM3Z16VC ZL 15.2 16 16.8 37 5 188 1 0.045 11.2 MM3Z22VC	MM3Z6V8C	ZB	6.46	6.8	7.14	14	5	75	1	1.8	4
MM3Z9V1C ZE 8.65 9.1 9.56 14 5 94 1 0.45 6 MM3Z10VC ZF 9.5 10 10.5 18 5 141 1 0.18 7 MM3Z11VC ZG 10.45 11 11.55 18 5 141 1 0.09 8 MM3Z12VC ZH 11.4 12 12.6 23 5 141 1 0.09 8 MM3Z13VC ZJ 12.35 13 13.65 28 5 160 1 0.09 8 MM3Z15VC ZK 14.25 15 15.75 28 5 188 1 0.045 11.2 MM3Z16VC ZL 15.2 16 16.8 37 5 188 1 0.045 11.2 MM3Z16VC ZM 17.1 18 18.9 42 5 212 1 0.045 14.4 MM3Z22VC	MM3Z7V5C	ZC	7.11	7.5	7.86	14	5	75	1	0.9	5
MM3Z10VC ZF 9.5 10 10.5 18 5 141 1 0.18 7 MM3Z11VC ZG 10.45 11 11.55 18 5 141 1 0.09 8 MM3Z12VC ZH 11.4 12 12.6 23 5 141 1 0.09 8 MM3Z13VC ZJ 12.35 13 13.65 28 5 160 1 0.09 8 MM3Z15VC ZK 14.25 15 15.75 28 5 188 1 0.045 10.5 MM3Z16VC ZM 17.1 18 18.9 42 5 212 1 0.045 11.2 MM3Z20VC ZN 19 20 21 51 5 212 1 0.045 14 MM3Z22VC ZP 20.9 22 23.1 51 5 235 1 0.045 15.4 MM3Z23VC	MM3Z8V2C	ZD	7.79	8.2	8.61	14	5	75	1	0.63	5
MM3211VC ZG 10.45 11 11.55 18 5 141 1 0.09 8 MM3212VC ZH 11.4 12 12.6 23 5 141 1 0.09 8 MM3213VC ZJ 12.35 13 13.65 28 5 160 1 0.09 8 MM3215VC ZK 14.25 15 15.75 28 5 188 1 0.045 10.5 MM3216VC ZL 15.2 16 16.8 37 5 188 1 0.045 11.2 MM3218VC ZM 17.1 18 18.9 42 5 212 1 0.045 11.2 MM3220VC ZN 19 20 21 51 5 212 1 0.045 14 MM3222VC ZP 20.9 22 23.1 51 5 235 1 0.045 16.8 MM3224VC </td <td>MM3Z9V1C</td> <td>ZE</td> <td>8.65</td> <td>9.1</td> <td>9.56</td> <td>14</td> <td>5</td> <td>94</td> <td>1</td> <td>0.45</td> <td>6</td>	MM3Z9V1C	ZE	8.65	9.1	9.56	14	5	94	1	0.45	6
MM3Z12VC ZH 11.4 12 12.6 23 5 141 1 0.09 8 MM3Z13VC ZJ 12.35 13 13.65 28 5 160 1 0.09 8 MM3Z15VC ZK 14.25 15 15.75 28 5 188 1 0.045 10.5 MM3Z16VC ZL 15.2 16 16.8 37 5 188 1 0.045 11.2 MM3Z18VC ZM 17.1 18 18.9 42 5 212 1 0.045 12.6 MM3Z20VC ZN 19 20 21 51 5 212 1 0.045 14.4 MM3Z22VC ZP 20.9 22 23.1 51 5 235 1 0.045 15.4 MM3Z24VC ZR 22.8 24 25.2 65 5 235 1 0.045 16.8 MM3Z30V	MM3Z10VC	ZF	9.5	10	10.5	18	5	141	1	0.18	7
MM3Z13VC ZJ 12.35 13 13.65 28 5 160 1 0.09 8 MM3Z15VC ZK 14.25 15 15.75 28 5 188 1 0.045 10.5 MM3Z16VC ZL 15.2 16 16.8 37 5 188 1 0.045 11.2 MM3Z18VC ZM 17.1 18 18.9 42 5 212 1 0.045 12.6 MM3Z20VC ZN 19 20 21 51 5 212 1 0.045 14 MM3Z22VC ZP 20.9 22 23.1 51 5 235 1 0.045 15.4 MM3Z24VC ZR 22.8 24 25.2 65 5 235 1 0.045 16.8 MM3Z3VC ZT 28.5 30 31.5 75 2 282 0.5 0.045 21 MM3Z3	MM3Z11VC	ZG	10.45	11	11.55	18	5	141	1	0.09	8
MM3Z15VC ZK 14.25 15 15.75 28 5 188 1 0.045 10.5 MM3Z16VC ZL 15.2 16 16.8 37 5 188 1 0.045 11.2 MM3Z18VC ZM 17.1 18 18.9 42 5 212 1 0.045 12.6 MM3Z20VC ZN 19 20 21 51 5 212 1 0.045 14 MM3Z22VC ZP 20.9 22 23.1 51 5 235 1 0.045 15.4 MM3Z24VC ZR 22.8 24 25.2 65 5 235 1 0.045 16.8 MM3Z3VC ZS 25.65 27 28.35 75 2 282 0.5 0.045 18.9 MM3Z3VC ZU 31.35 33 34.65 75 2 282 0.5 0.045 23 <t< td=""><td>MM3Z12VC</td><td>ZH</td><td>11.4</td><td>12</td><td>12.6</td><td>23</td><td>5</td><td>141</td><td>1</td><td>0.09</td><td>8</td></t<>	MM3Z12VC	ZH	11.4	12	12.6	23	5	141	1	0.09	8
MM3Z16VC ZL 15.2 16 16.8 37 5 188 1 0.045 11.2 MM3Z18VC ZM 17.1 18 18.9 42 5 212 1 0.045 12.6 MM3Z20VC ZN 19 20 21 51 5 212 1 0.045 14 MM3Z22VC ZP 20.9 22 23.1 51 5 235 1 0.045 15.4 MM3Z24VC ZR 22.8 24 25.2 65 5 235 1 0.045 16.8 MM3Z27VC ZS 25.65 27 28.35 75 2 282 0.5 0.045 18.9 MM3Z30VC ZT 28.5 30 31.5 75 2 282 0.5 0.045 21 MM3Z39VC ZV 34.2 36 37.8 84 2 329 0.5 0.045 25.2 <td< td=""><td>MM3Z13VC</td><td>ZJ</td><td>12.35</td><td>13</td><td>13.65</td><td>28</td><td>5</td><td>160</td><td>1</td><td>0.09</td><td>8</td></td<>	MM3Z13VC	ZJ	12.35	13	13.65	28	5	160	1	0.09	8
MM3Z18VC ZM 17.1 18 18.9 42 5 212 1 0.045 12.6 MM3Z20VC ZN 19 20 21 51 5 212 1 0.045 14 MM3Z22VC ZP 20.9 22 23.1 51 5 235 1 0.045 15.4 MM3Z24VC ZR 22.8 24 25.2 65 5 235 1 0.045 16.8 MM3Z27VC ZS 25.65 27 28.35 75 2 282 0.5 0.045 18.9 MM3Z30VC ZT 28.5 30 31.5 75 2 282 0.5 0.045 21 MM3Z33VC ZU 31.35 33 34.65 75 2 306 0.5 0.045 23 MM3Z39VC ZV 34.2 36 37.8 84 2 329 0.5 0.045 27.3	MM3Z15VC	ZK	14.25	15	15.75	28	5	188	1	0.045	10.5
MM3Z20VC ZN 19 20 21 51 5 212 1 0.045 14 MM3Z22VC ZP 20.9 22 23.1 51 5 235 1 0.045 15.4 MM3Z24VC ZR 22.8 24 25.2 65 5 235 1 0.045 16.8 MM3Z27VC ZS 25.65 27 28.35 75 2 282 0.5 0.045 18.9 MM3Z30VC ZT 28.5 30 31.5 75 2 282 0.5 0.045 21 MM3Z33VC ZU 31.35 33 34.65 75 2 306 0.5 0.045 23 MM3Z36VC ZV 34.2 36 37.8 84 2 329 0.5 0.045 25.2 MM3Z39VC ZW 37.05 39 40.95 122 2 329 0.5 0.045 30.1	MM3Z16VC	ZL	15.2	16	16.8	37	5	188	1	0.045	11.2
MM3Z22VC ZP 20.9 22 23.1 51 5 235 1 0.045 15.4 MM3Z24VC ZR 22.8 24 25.2 65 5 235 1 0.045 16.8 MM3Z27VC ZS 25.65 27 28.35 75 2 282 0.5 0.045 18.9 MM3Z30VC ZT 28.5 30 31.5 75 2 282 0.5 0.045 21 MM3Z33VC ZU 31.35 33 34.65 75 2 306 0.5 0.045 23 MM3Z36VC ZV 34.2 36 37.8 84 2 329 0.5 0.045 25.2 MM3Z39VC ZW 37.05 39 40.95 122 2 329 0.5 0.045 27.3 MM3Z43VC ZX 40.85 43 45.15 141 2 353 0.5 0.045 30.1	MM3Z18VC	ZM	17.1	18	18.9	42	5	212	1	0.045	12.6
MM3Z24VC ZR 22.8 24 25.2 65 5 235 1 0.045 16.8 MM3Z27VC ZS 25.65 27 28.35 75 2 282 0.5 0.045 18.9 MM3Z30VC ZT 28.5 30 31.5 75 2 282 0.5 0.045 21 MM3Z33VC ZU 31.35 33 34.65 75 2 306 0.5 0.045 23 MM3Z6VC ZV 34.2 36 37.8 84 2 329 0.5 0.045 25.2 MM3Z39VC ZW 37.05 39 40.95 122 2 329 0.5 0.045 27.3 MM3Z43VC ZX 40.85 43 45.15 141 2 353 0.5 0.045 30.1 MM3Z61VC ZY 44.65 47 49.35 160 2 353 0.5 0.045 35.7 <td>MM3Z20VC</td> <td>ZN</td> <td>19</td> <td>20</td> <td>21</td> <td>51</td> <td>5</td> <td>212</td> <td>1</td> <td>0.045</td> <td>14</td>	MM3Z20VC	ZN	19	20	21	51	5	212	1	0.045	14
MM3Z27VC ZS 25.65 27 28.35 75 2 282 0.5 0.045 18.9 MM3Z30VC ZT 28.5 30 31.5 75 2 282 0.5 0.045 21 MM3Z33VC ZU 31.35 33 34.65 75 2 306 0.5 0.045 23 MM3Z36VC ZV 34.2 36 37.8 84 2 329 0.5 0.045 25.2 MM3Z39VC ZW 37.05 39 40.95 122 2 329 0.5 0.045 27.3 MM3Z43VC ZX 40.85 43 45.15 141 2 353 0.5 0.045 30.1 MM3Z47VC ZY 44.65 47 49.35 160 2 353 0.5 0.045 33. MM3Z56VC Z_ 48.45 51 53.55 169 2 376 0.5 0.045 39.2	MM3Z22VC	ZP	20.9	22	23.1	51	5	235	1	0.045	15.4
MM3Z30VC ZT 28.5 30 31.5 75 2 282 0.5 0.045 21 MM3Z33VC ZU 31.35 33 34.65 75 2 306 0.5 0.045 23 MM3Z36VC ZV 34.2 36 37.8 84 2 329 0.5 0.045 25.2 MM3Z39VC ZW 37.05 39 40.95 122 2 329 0.5 0.045 27.3 MM3Z43VC ZX 40.85 43 45.15 141 2 353 0.5 0.045 30.1 MM3Z47VC ZY 44.65 47 49.35 160 2 353 0.5 0.045 33 MM3Z51VC Z_ 48.45 51 53.55 169 2 376 0.5 0.045 35.7 MM3Z68VC Z_ 58.9 62 65.1 202 2 423 0.5 0.045 47.6	MM3Z24VC	ZR	22.8	24	25.2	65	5	235	1	0.045	16.8
MM3Z33VC ZU 31.35 33 34.65 75 2 306 0.5 0.045 23 MM3Z36VC ZV 34.2 36 37.8 84 2 329 0.5 0.045 25.2 MM3Z39VC ZW 37.05 39 40.95 122 2 329 0.5 0.045 27.3 MM3Z43VC ZX 40.85 43 45.15 141 2 353 0.5 0.045 30.1 MM3Z47VC ZY 44.65 47 49.35 160 2 353 0.5 0.045 33 MM3Z51VC Z_ 48.45 51 53.55 169 2 376 0.5 0.045 35.7 MM3Z66VC Z_ 53.2 56 58.8 188 2 400 0.5 0.045 39.2 MM3Z68VC Z> 64.6 68 71.4 226 2 447 0.5 0.045 47.6	MM3Z27VC	ZS	25.65	27	28.35	75	2	282	0.5	0.045	18.9
MM3Z36VC ZV 34.2 36 37.8 84 2 329 0.5 0.045 25.2 MM3Z39VC ZW 37.05 39 40.95 122 2 329 0.5 0.045 27.3 MM3Z43VC ZX 40.85 43 45.15 141 2 353 0.5 0.045 30.1 MM3Z47VC ZY 44.65 47 49.35 160 2 353 0.5 0.045 33 MM3Z51VC Z_ 48.45 51 53.55 169 2 376 0.5 0.045 35.7 MM3Z56VC Z_ 53.2 56 58.8 188 2 400 0.5 0.045 39.2 MM3Z68VC Z_ 58.9 62 65.1 202 2 423 0.5 0.045 47.6 MM3Z68VC Z> 64.6 68 71.4 226 2 447 0.5 0.045 47.6	MM3Z30VC	ZT	28.5	30	31.5	75	2	282	0.5	0.045	21
MM3Z39VC ZW 37.05 39 40.95 122 2 329 0.5 0.045 27.3 MM3Z43VC ZX 40.85 43 45.15 141 2 353 0.5 0.045 30.1 MM3Z47VC ZY 44.65 47 49.35 160 2 353 0.5 0.045 33 MM3Z51VC Z_ 48.45 51 53.55 169 2 376 0.5 0.045 35.7 MM3Z56VC Z_ 53.2 56 58.8 188 2 400 0.5 0.045 39.2 MM3Z62VC Z_ 58.9 62 65.1 202 2 423 0.5 0.045 43.4 MM3Z68VC Z> 64.6 68 71.4 226 2 447 0.5 0.045 47.6	MM3Z33VC	ZU	31.35	33	34.65	75	2	306	0.5	0.045	23
MM3Z43VC ZX 40.85 43 45.15 141 2 353 0.5 0.045 30.1 MM3Z47VC ZY 44.65 47 49.35 160 2 353 0.5 0.045 33 MM3Z51VC Z_ 48.45 51 53.55 169 2 376 0.5 0.045 35.7 MM3Z56VC Z_ 53.2 56 58.8 188 2 400 0.5 0.045 39.2 MM3Z62VC Z_ 58.9 62 65.1 202 2 423 0.5 0.045 43.4 MM3Z68VC Z> 64.6 68 71.4 226 2 447 0.5 0.045 47.6	MM3Z36VC	ZV	34.2	36	37.8	84	2	329	0.5	0.045	25.2
MM3Z47VC ZY 44.65 47 49.35 160 2 353 0.5 0.045 33 MM3Z51VC Z_ 48.45 51 53.55 169 2 376 0.5 0.045 35.7 MM3Z56VC Z_ 53.2 56 58.8 188 2 400 0.5 0.045 39.2 MM3Z62VC Z_ 58.9 62 65.1 202 2 423 0.5 0.045 43.4 MM3Z68VC Z> 64.6 68 71.4 226 2 447 0.5 0.045 47.6	MM3Z39VC	ZW	37.05	39	40.95	122	2	329	0.5	0.045	27.3
MM3Z51VC Z_ 48.45 51 53.55 169 2 376 0.5 0.045 35.7 MM3Z56VC Z_ 53.2 56 58.8 188 2 400 0.5 0.045 39.2 MM3Z62VC Z_ 58.9 62 65.1 202 2 423 0.5 0.045 43.4 MM3Z68VC Z> 64.6 68 71.4 226 2 447 0.5 0.045 47.6	MM3Z43VC	ZX	40.85	43	45.15	141	2	353	0.5	0.045	30.1
MM3Z56VC Z ₌ 53.2 56 58.8 188 2 400 0.5 0.045 39.2 MM3Z62VC Z ₌ 58.9 62 65.1 202 2 423 0.5 0.045 43.4 MM3Z68VC Z> 64.6 68 71.4 226 2 447 0.5 0.045 47.6	MM3Z47VC	ZY	44.65	47	49.35	160	2	353	0.5	0.045	33
MM3Z62VC Z _≡ 58.9 62 65.1 202 2 423 0.5 0.045 43.4 MM3Z68VC Z> 64.6 68 71.4 226 2 447 0.5 0.045 47.6	MM3Z51VC	Z_	48.45	51	53.55	169	2	376	0.5	0.045	35.7
MM3Z68VC Z> 64.6 68 71.4 226 2 447 0.5 0.045 47.6	MM3Z56VC	Z ₌	53.2	56	58.8	188	2	400	0.5	0.045	39.2
	MM3Z62VC	Z _≡	58.9	62	65.1	202	2	423	0.5	0.045	43.4
MM3Z75VC Z< 71.25 75 78.75 240 2 470 0.5 0.045 52.5	MM3Z68VC	Z>	64.6	68	71.4	226	2	447	0.5	0.045	47.6
	MM3Z75VC	Z<	71.25	75	78.75	240	2	470	0.5	0.045	52.5

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

The Zener Voltage (V_Z) is tested under pulse condition of 10 ms.
 The device numbers listed have a standard tolerance on the nominal zener voltage of ±5%.

^{3.} The zener impedance is derived from the 60-cycle ac voltage, which results when an ac current having an rms value equal to 10% of the dc zener current (I_{ZT} or I_{ZK}) is superimposed to I_{ZT} or I_{ZK} .

MM3Z2V4C - MM3Z75VC

TYPICAL PERFORMANCE CHARACTERISTICS

10000

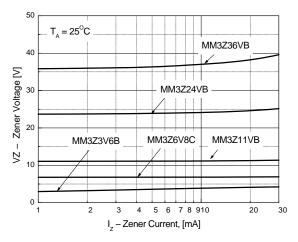
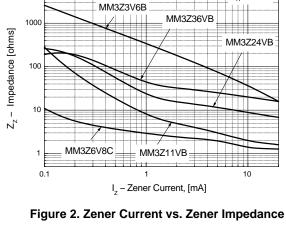


Figure 1. Zener Current vs. Zener Voltage



 $T_{\Delta} = 25^{\circ}C$

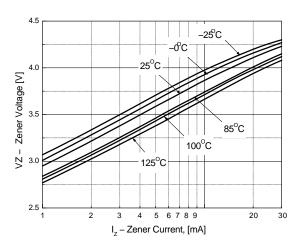


Figure 3. MM3Z3V6B Zener Current vs. Zener Voltage

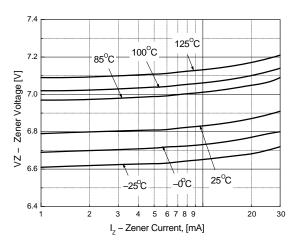


Figure 4. MM3Z6V8B Zener Current vs. Zener Voltage

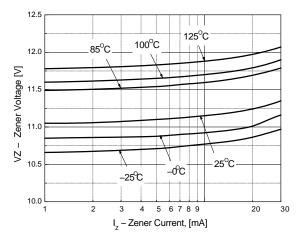


Figure 5. MM3Z11VB Zener Current vs. Zener Voltage

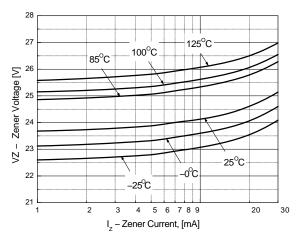


Figure 6. MM3Z24VB Zener Current vs. Zener Voltage

MM3Z2V4C - MM3Z75VC

TYPICAL PERFORMANCE CHARACTERISTICS

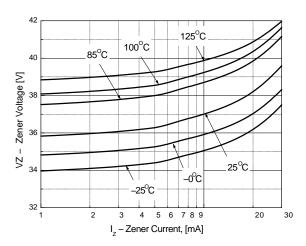
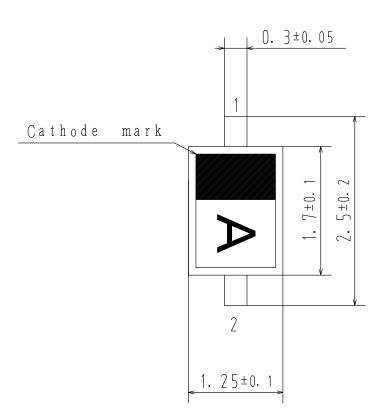


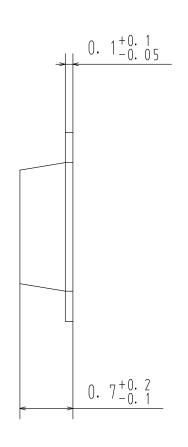
Figure 7. MM3Z36VB Zener Current vs. Zener Voltage



SOD-323FL CASE 477AB ISSUE O

DATE 30 APR 2012





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 MM3Z6V8C
 MM3Z75VC